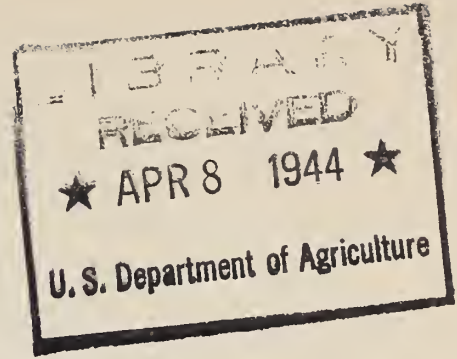


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SOIL CONSERVATION LITERATURE
SELECTED CURRENT REFERENCES

V.1 July/August 1937 No. 4

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State Publications	Page 86
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The publications listed herein may in most cases be borrowed from the Service Library by members of the Washington and field staffs. For convenience Library call numbers are given after each book and pamphlet entry. These should be included when requesting loans.

PERIODICALS CURRENTLY RECEIVED
IN THE
LIBRARY OF THE SOIL CONSERVATION SERVICE

In response to numerous requests periodicals currently received in the Library of the Soil Conservation Service are listed below. Any on the list may be circulated regularly to individuals located in Washington upon application.

Consideration will also be given to applications received from field representatives of the Service if the periodicals desired are not received in nearby Regional Offices.

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| Agricultural Engineering. monthly. | Farm and Ranch. semimonthly. |
| Agricultural Leaders' Digest. monthly. | Farm Machinery and Equipment. monthly. |
| American Agriculturist. biweekly. | Farmer. biweekly. |
| American Fertilizer. biweekly. | Farmer-Stockman. semimonthly. |
| American Forests. monthly. | Fertilizer Review. quarterly. |
| American Journal of Botany. monthly. | Forestry News Digest. monthly. |
| American Journal of Science. monthly. | |
| American Meteorological Society. | Geographical Review. quarterly. |
| Bulletin. monthly. | Geological Society of America. |
| American Society of Agronomy. Journal. | Bulletin. monthly. |
| monthly. | |
| American Society of Civil Engineers. | Hoard's Dairyman. semimonthly. |
| Proceedings. monthly. | |
| American Wildlife. bimonthly. | Imperial Bureau of Plant Genetics. |
| Annales Agronomiques. bimonthly. | Herbage abstracts. quarterly. |
| Auk. quarterly. | Imperial Bureau of Plant Genetics. |
| Automobile Trade Journal. monthly. | Herbage reviews. quarterly. |
| | Imperial Bureau of Soil Science. |
| Better Crops With Plant Food. monthly. | Publications relating to soils and |
| Breeders' Gazette. monthly. | fertilizers. monthly. |
| | Indiana Farmers' Guide. semimonthly. |
| California Cultivator. biweekly. | |
| Capper's Farmer. monthly. | Journal of Ecology. Twice a year - |
| Chemical Abstracts. semimonthly. | February and August. |
| Civil Engineering. monthly. | Journal of Farm Economics. quarterly. |
| Commercial Car Journal. monthly. | Journal of Forestry. monthly. |
| Conservation. bimonthly. | Journal of Geology. 8 numbers a year. |
| Country Gentleman. monthly. | Journal of Land and Public Utility |
| Country Home. monthly. | Economics. quarterly. |
| | Journal of Sedimentary Petrology. |
| Ecology. quarterly. | 3 times a year - Apr., Aug., Dec. |
| Engineering News Record. weekly. | Kansas Farmer. biweekly. |

- Louisiana Conservation Review. quarterly.
- Mechanical Engineering. monthly.
- Meteorological Magazine. monthly.
- Military Engineer. bimonthly.
- Nature. weekly. London.
- Nature Magazine. monthly.
- Ohio Farmer. biweekly.
- Pennsylvania Farmer. biweekly.
- Photogrammetric Engineering. quarterly.
- Prairie Farmer. biweekly.
- Progressive Farmer. monthly.
- Ranger. monthly.
- Royal Meteorological Society. Quarterly Journal.
- Science. weekly.
- Scientific Monthly.
- Southern Agriculturist. monthly.
- Southern Planter. monthly.
- Soviet Subtropics. Russian. 12 numbers a year. irregularly.
- Successful Farming. monthly.
- USDA Bureau of Agricultural Economics. Agricultural Economics Literature. monthly.
- USDA Bureau of Agricultural Economics. Agricultural Situation. monthly.
- USDA Bureau of Agricultural Engineering. Current Literature in Agricultural Engineering. monthly.
- USDA Bureau of Biological Survey. Wild Life Review. bimonthly.
- USDA Crops and Markets. monthly.
- USDA Office of Experiment Stations. Experiment Station Record. monthly.
- USDA Extension Service. Extension Service Review. monthly.
- USDA Forest Service. Forestry Current Literature. bimonthly.
- USDA Office of Information. Monthly List of Publications.
- USDA Journal of Agricultural Research. semimonthly.
- USDA Bureau of Plant Industry. Plant Science Literature. weekly.
- USDA Bureau of Public Roads. Highways: Current Literature. weekly.
- USDA Bureau of Public Roads. Public Roads. monthly.
- USDA Library. Agricultural Library Notes. monthly.
- USDA Resettlement Administration. Land Policy Circular. monthly.
- USDA Soil Conservation Service. Soil Conservation. monthly.
- USDA Soil Conservation Service. Soil Conservation Literature: Selected Current References. bimonthly.
- USDA Weather Bureau. Monthly Weather Review.
- U.S. Dept. of Interior. Office of Indian Affairs. Indians at Work. semi-monthly.
- U.S. Library of Congress. Monthly Check-List of State Publications.
- U.S. National Resources Committee. Water Resources Committee. Monthly Report on Impending Programs.
- U.S. Bureau of Reclamation. Reclamation Era. monthly.
- U.S. Supt. of Documents. Monthly Catalog of U. S. Public Documents.
- Valley News. 2 or 3 times a year. irregularly.
- Wallaces' Farmer. biweekly.
- Western Farm Life. semimonthly.
- Wisconsin Agriculturist. biweekly.

PERIODICAL ARTICLES

Contour Tillage

Lakin, H.D. Profiting from going crooked. Mich. Farmer 137(13): 423, 427, illus. June 19, 1937.

"Contour planting is one way that going 'crooked' pays" according to 16 Berrien County fruit growers to whom "goes the credit of striking a new mode in setting orchards in Michigan."

Cover Crops

Vegetable growers use cover crops. Calif. Cult. 84(12): 442. June 5, 1937.
Use in California.

Dams

Drouth insurance with 1,600 dams. West. Farm Life, June 15, 1937, p. 10, 23, illus.

"Hundreds of small water storage dams constructed as projects of the Works Progress Administration in the western states are receiving their first tests this summer.

"Designed to prevent soil erosion, to provide convenient and accessible stock-watering facilities in dry periods, and often to provide irrigation facilities for considerable tracts of land, these dams were built to hold back for the summer sufficient of the winter and spring rainfall runoff to prevent recurrence of what have amounted to disastrous conditions in the past."

Fertilizers

Garrard, H.L. Replace plant food losses in crops. Better Crops With Plant Food 21(8): 12-13, 40-41. June-July 1937.

Two "very important considerations from the soil conservation standpoint are (1) just how much plant food is actually required by crops, especially the legumes, and (2) how much is lost from the soil when crops are harvested."

McCollam, M.E. The role of potash in California soils. Better Crops With Plant Food 21 (8): 17-18, 37-39. June-July 1937.

Martin, Jack. Use of fertilizers in erosion control. U.S. Soil Conserv. Serv. Soil Conserv. Digest 3 (9): 4. June 1937.

Report of results observed on fertilizer tests plots, Las Posas project, Ventura County, California during the 1936-37 season "substantiates the frequently recommended practice of applying fertilizers, particularly the nitrogenous forms, in establishing cover crops and other types of vegetation in erosion control."

Musbach, F.L. Fertilizer response on Colby silt loam. Better Crops With Plant Food 21(8): 6-8, 44, illus. June-July 1937.

"While this piece of work has been carried on only a relatively short time (at Marshfield Experiment Station, Wisconsin) it confirms the findings on other work in that phosphorus alone is not a well-balanced fertilizer for this soil type. Under conditions such as prevail on this field, a need for potash is indicated, and quite likely the use of some nitrogen would represent a more nearly balanced mixture for the crops grown in this rotation."

Floods and Flood Control

Bates, C.G. Controlling mad waters. Amer. Forests 43(6):278-281, 300, 321-322, illus. June 1937.

"In planning flood control it behooves the nation to make use of protection forests where their value is most positive, which is in regions of considerable relief, with heavy soils of great depth or those which overlie formations of sedimentary origin in some degree water-bearing. This can be done on a large scale in the Mississippi Valley without disturbing the economy of agriculture. In all cases forests have some value in protecting soil surfaces, but in many cases the storage capacity for excessive amounts of rainfall does not exist. It is believed these latter cases explain the contention of engineers that in great floods the forests have no effect, but they do not justify any such absolute statement."

Brooks, C.F. and Baldwin, H.I. How forests retard floods. Amer. Forests 43(6): 274-277, 316-317, illus. June 1937.

"No policy of flood control can neglect to take into account the effect of forests in reducing the amount of water, in the form of rain or snow, that reaches the ground, in reducing the rate of release of water from melting snow, in promoting infiltration, and in obstructing the rate of runoff and conserving soil."

Brossmann, Charles. Flood protection in the Ohio valley. Am. Water Works Assoc. Jour. 29(5):597-606, map. May, 1937.

Presented before the Indiana Section, American Water Works Association, March, 1937.

"In general the problem seems to resolve itself into three main phases: to hold the water back in the upper reaches of the watershed; to get it away as rapidly as possible in the lower streams; and building levees or retaining walls for the protection of cities to the compromise height made necessary by this work."

Brown, M.H. Traveling soils; an erosion surveyor views the flood zone. Soil Conservation 2(11):253, 267-268, illus. May 1937.

A discussion of the investigations of the condition of the farm lands and urban areas in the flooded zones from Pittsburgh, Pa., to Cairo, Ill.

Conference seeks flood control action. Foresters and engineers stress comprehensive plans for major watersheds at 62nd annual meeting of the American Forestry Association. Amer. Forests 43(7):344-346, 354, 363-365, illus. July 1937.

Brief excerpts from addresses, proceedings and resolutions passed at meeting held in Cincinnati, Ohio, May 31 to June 3, 1937.

Among resolutions are ones concerning flood control, conservation and soil waters.

Cooke, H.L. We can reduce flood destruction. Birdlore 39(2):101-106, illus. March-April 1937.

The author contends that "in order to minimize floods, and at the same time receive the maximum benefits from our water resources, it is essential that we hold as much water as possible on the land where it falls and, by various practices, promote its infiltration to ground-water storage."

Floods and Flood Control, Cont.

Davis, R.H. Watershed treatment and flood control. Soil Conservation 2(11): 247-250, illus. May 1937.

"Flood-control programs which include watershed protection will:

1. Conserve soil and water on the land for useful purposes.
2. Decrease the frequency of minor floods.
3. Diminish the crest of major floods.
4. Reduce sedimentation in reservoirs.
5. Minimize the silting of stream channels.
6. More nearly fulfill the goal of doing the greatest good for the greatest number."

Table shows average annual water and soil losses from cultivated and grass land.

Decreased forest area contributes to severity of floods in Indiana. Wooded area in state reduced seventy-five percent resulting in more rapid runoff and increased soil erosion. Outdoor Ind. 4(2):19, 24. March 1937.

Ellsworth, C.E. Flood flows of Texas rivers. Civil Engin. 7(7):493-496. July 1937.

Hibbs, Ben. Water to the sea. Country Gent. 107(6):7, 69-71, illus. June 1937.

It is stated that floods are not man-made; they are not caused by the cutting of forests. No reservoirs or basins can be built that are large enough to impound the waters of the Ohio and the Mississippi. Forests and grasslands can't absorb enough rainfall to prevent floods. Erosion consists mostly of moving soils from higher to lower levels. Not much soil runs down the streams.

Love, S.K. Soil loss in Potomac flood. Engin. News-Rec. 118(25):935. June 24, 1937.

Information with respect to the silt loads and corresponding denudation over a drainage basin, related to one flood on one river, namely, the Potomac River flood in April 1937.

Patrick, A.L. Agriculture's new approach to flood control. Soil Conservation 2(11):245-246, 266. May 1937.

A discussion of the coordinated land and water program for flood control authorized by the Omnibus Flood Control Act (Public, 738-74th Congress), passed June 22, 1936.

Pohl, H.H. Ohio river flood control plan. Am. Water Works Assoc. Jour. 29(5): 589-590. May 1937.

Presented before the Indiana Section, American Water Works Association, March, 1937.

Zon, R. Woodlands as a control for floods. Canad. Forest and Outdoors 33(4): 102. Apr. 1937.

Grass

Beeler, M.N. Back to buffalo grass. Capper's Farmer 48(6):13, 49, illus. June 1937.

Directions for establishing buffalo grass pastures by transplantation.

Grass, Cont.

Beeler, H.N. (Cont.)

"In regions where soil blowing may occur, sods may be planted in furrows, and rows may be spaced wide enough apart for planting Sudan grass between them. This will protect the sods from coverage or from blowing out not only during the growing season, but afterward if the grass or a high stubble is left in the field."

Gully Control

Latham, B.M. How Berry gully was conquered. Jour. Geogr. 36(5):193-196, illus. May 1937.

Hydraulics

Kessler, L.H. Results of experiments on hydraulics of drop inlets and other erosion control structures. Agr. Engin. 18(6):253-258, illus. June 1937.

Paper presented before the Soil and water conservation division of the American Society of Agricultural Engineers at Chicago, December 4, 1936.

Land Slope

Raisz, Erwin and Henry, Joyce. An average slope map of southern New England. Geogr. Rev. 27(3):467-472, illus. July 1937.

Describes a map similar to the relative relief map of Ohio by Guy Harold Smith which is said to have called attention in the United States to the problem of defining quantitatively the average slope of the land.

The significance of land slope. Clemson Agr. Col. Dept. Agr. Educ. School of Voc. Educ. Agr. Educ. 13(7-8):99-131. March-April 1937.

"References", p.131.

Land Utilization

Cohoe, M.H. The application of farm management data in farm planning. Soil Conservation 2(11):262-264. May 1937.

"Production can be maintained, farm organizations properly balanced, soil conserved by careful planning."

Johnson, S.E. Land use readjustments in the Northern Great Plains. Jour. Land & Pub. Economics 13(2):153-162. May 1937.

"The many maladjustments in land use in the Northern Great Plains are partly the result of continuing an outmoded homestead policy which encouraged settlement of land unsuited to crop farming."

Kelso, M.M. Problems of the upper Rio Grande. U.S. Resettlement Admin. Land Use Planning Sec. Land Policy Circ. 3(5):19-22. June 1937.

Some preliminary reports on findings of the Inter-departmental Committee of the Rio Grande Valley. This committee was appointed to assemble material on land use conditions in this valley.

Russell, W.M. Development of land use adjustment projects. U.S. Resettlement Admin. Land Use Planning Sec. Land Policy Circ. 3(5):10-14. June 1937.

Legumes

Neel, L.R. Third stage in American agriculture. Alfalfa and other legume crops aid in building and holding soil. South.Agriculturist 67(6):10. illus. June 1937.

The article states that the third stage in American agriculture is "that of soil building and conservation."

Terman, G.L. Legumes are important in the Kansas farming system. Kans.Agr. Student 16(3):76-78, illus. March 1937.

Includes map indicating, by counties, the percentage of crop acres devoted to the production of legumes.

Mapping

Carpenter, J.C. Application of maps to engineering practice. Civil Engin. 7(7):504-507, illus. July 1937.

Importance of maps to agriculture, particularly the Soil Conservation Service, quoted from statement made by C.W. Collier.

Haquinius, Eric. Air-mapping the Brazos river area. Civil Engin. 7(7):509-512, illus. July 1937.

Orchard Management

Batjer, L.P. Some suggestions for soil management in West Virginia. Mountain-eer Grower 8(35):1-9. May 1937.

Address delivered before West Virginia Horticultural Society's 44th convention, Martinsburg, Feb. 11, 1937.

Discusses some of the aspects of soil management and fertilization in the established orchard and the relation of these factors to moisture conservation and the nutrition of the tree.

Soil and Sand Blowing

Aspleaf, H.D. South Dakotans control their soil. What is being done in Tripp county. The Farmer (Dakota ed.) 55(12):5, 15, illus. June 5, 1937.
Control of soil blowing.

Markley, M.C. The problem of wind erosion. Northwest Miller 189:15, 24. Mar. 31, 1937.

Sears, P.B. O, bury me not or, The bison avenged. New Republic 91(1171):7-10. May 12, 1937.

Author discusses the condition of the high plains or short grass country, where the "Dust Bowl" has its center, and the need for immediate intelligent action in this region.

Also in Conservation 3(3):38-40. May-June 1937.

These boys tackle even the sands of the sea. Oreg.Farmer 60(10):291, illus. May 13, 1937.

Article discusses the methods of controlling shifting sands from the sea which were destroying rich pastures in Clatsop county, Oregon.

Soil and Sand Blowing, Cont.

Thompson, W.O. Original structures of beaches, bars and dunes. Bul. Geol. Soc. Amer. 48(6):723-751, illus. June 1, 1937.
Bibliographical footnotes.

Tyler, M.C. Present work of the United States Beach erosion board. Shore and Beach 5(1):10-11. January 1937.

Ward, H.B. Symposium at the Denver meeting on the control of drifting soils. Science n.s. 85(2213):514. May 28, 1937.

"The general symposium arranged for the Denver meeting under joint auspices of the American Association and the Ecological Society of America deals with the important problem of 'The scientific aspects of the control of drifting soils'.... Three speakers have been invited to discuss the geological, the biological and the present human phases of the question.

"'The Geological aspects of the drifting of soils' will be the topic of the first paper by Dr. M.M. Leighton, chief of the Illinois state geological survey... 'Climatic cycles and human populations' is the subject announced by Dr. F.E. Clements, of the Division of plant biology of the Carnegie institution of Washington... The final paper by H.H. Bennett, chief of the Soil Conservation Service, is entitled 'Emergency and permanent scientific control of wind erosion.'"

Weatherwax, H.E. Seashore park construction in North Carolina. Shore and Beach 5(1):12-14. January 1937.

Soil Conservation

B., T.R. The new soil-conservation law tackles the dust bowl - absentee owners. New Republic 91(1175)123. June 9, 1937.

Indicates that general adoption of standard conservation district law is regarded "as a major victory" but "experts are pressing to have two further steps taken." One is "the coordination of federal, state and local governmental agencies." The other concerns absentee ownership.

Hill, E.B. and Taylor, H.B. Land use and soil conservation practices in Mecosta county. Mich. Agr. Exp. Sta. Quart. Bul. 19(4):207-212. May 1937.

Information obtained relative to soil conservation needs and practices on 78 farms in Wheatland and Sheridan Townships, Mecosta County, Michigan, in 1936.

Hopkins, E.S. Soil conservation programs in the United States and Canada. Sci. Agr. 17(5):265-269. January 1937.

Long, A.P. Hill planting. Quart. Jour. Forestry 31(1):17-26. January 1937.

"The primary object of this paper is to consider some practical aspects of the afforestation of hill country..."

Ries, V.H. New shrubs for bank plantings. Nature Magazine 29(6):338, illus. June 1937.

It is stated that the rockspray shrub, *Cotoneaster horizontalis*, has been found to winterkill in more northern latitudes and is being replaced with hardier varieties, such as *Cotoneaster adpressa*, *Cotoneaster apiculata*, and *Cotoneaster dammeri radicans*.

Soil Conservation, Cont.

Teutsch, W.L. Straw farming. Capper's Farmer 48(6):8, illus. June 1937.

"Increasing seriousness of the loss of soil from wind and water erosion has caused many wheat farmers of the Pacific Northwest to adopt 'straw farming' methods. Straw farming means careful preservation of the crop residue, straw and stubble, turning it down so as to leave it on or near the surface, adding organic matter to the soil, increasing moisture holding capacity and in substantial measure preventing the soil from washing or blowing..."

"The approved 1937 fashion in summer fallow for the Pacific northwest is trashy fallow. It is as free from weeds as the old style fallow but it is by no means free of 'trash.'"

Soil Erosion

Kuron, H. The significance of soil erosion investigation for general soil science. Soil Research 5(3):229-237. 1937.

"Literature," pp.236-237.

Summary: "The present paper gives a brief review of the points of view, from which quantitative investigations on soil erosion may have significance for general soil science. Such investigations are of interest chiefly in connection with problems relating to soil genesis, geochemistry, soil cartography, and soil assessment."

Article in German.

Richardson, E.G. The transport of soil and salts by running water. Internatl. Soc. Soil Sci. Proc. 12(1):8-9. 1937.

"This paper," presented at the meeting of the 6th Commission of the International Society of Soil Science, Zurich 1937, "forms a report on progress made by the author in studying the fundamental aspects of the erosion problem since the Congress at Oxford."

Soil Erosion. Foreign Countries

Chevalier, Aug. Lutte contre l'érosion et conservation de la fertilité des sols dans les plantations de caféiers. D'après G.H. Gethin-Jones. Rev. Bot. Appl. et Agr. Trop. 17(188):292-293. April 1937.

Gorrie, R.M. The foothills grazing problem in India. Herbage Rev. 5(2):74-78, illus. June 1937.

"Processes of desiccation, deforestation and inevitable erosion can be seen by any intelligent observer on any train journey across India from north to south or east to west." Much of this is due to grazing conditions.

Officers of the Punjab Government "are now working in areas where erosion has already reached an alarming stage and their work in the villages has been towards a combination of rotational grazing closures, and the reservation of hay-fields, with erosion control, torrent reclamation, stream training, and afforestation projects on a scale suitable to meet the needs of each village or group of villages."

Gorrie, R.M. Note on soil erosion in the Punjab. Indian Forester 63(3):151-154. March 1937.

Soil Erosion. Foreign Countries, Cont.

Hornby, H.E. The control of animal diseases in relation to overstocking and soil erosion. *Empire Jour. Expt. Agr.* 5(18):143-154 p. April 1937.

"References": p.154.

The author is Director of veterinary services, Tanganyika Territory, and he discusses the conditions in that section.

Ringland, A.C. Watershed control in Italy. *Soil Conservation* 2(11):251, 265, illus. May 1937.

Schemes for soil-erosion control and water conservation. *Farming So. Africa* 12(133):169, 171. April 1937.

Brief summary of schemes under which Government assistance is afforded for the control of soil erosion and the building of small dams for water conservation in South Africa.

Smith, D.E. Dust devils and dessication in West Africa. *Met. Mag. [London]* 72(856):83-85. May 1937.

"The dry harmattan from the Sahara is annually bringing a considerable amount of fine dust or sand into the West African colonies. The harmattan blows for nearly half the year... It is only in the north amongst the large sandy tracts of Northern Nigeria and French West Africa that we have the incubation grounds of sand storms and dust devils."

Stevenson, D.D. China's trees of the future. *Amer. Forests* 43(7):347-349, 366-367, illus. July 1937.

A report of a general survey of the interior of Kwangtung, China, a region which offers great possibilities for practical results from a program of land conservation.

Mention is made of the destructive effects of erosion and the need for reforestation on the hillsides to suit local conditions. It is suggested that where the soil is especially barren and in need of building up, legumes such as Ipil-ipil (*Leucaena glauca*), a fast-growing leguminous tree successfully established on the hillsides of Luzon in the Philippines, should be tried.

Thorp, James. The soils of China. *Asia* 37(4):291-294, illus. April 1937.
The erosion problem is discussed in a general way.

Van Vuren, J.P.J. The problem of wind-eroded lands. *Farming So. Africa* 12(132):108-109, 125. March 1937.

Process, results and preventive measures in Orange Free State, South Africa.

Soil Moisture

Bouyoucos, G.J. The dilatometer method for determining the moisture equivalent of soils. *Soil Science* 43(5):385-389. May 1937.

"References": p.389.

Dreier, John. The coordinated program for the southern high plains. *U.S. Re-settlement Admin. Land Use Planning Sec. Land Policy Circ.* 3(5):15-18. June 1937.

Enumerates the important factors involved in a coordinated program for protective land use in the dust storm area.

Development of soil conservation districts in each state is indicated to be of the utmost importance.

Soil Moisture, Cont.

Puri, A.N. and Sarup, A. The use of collapsible tubes for storing soil samples for moisture estimation. Soil Science 43(5):375-376. May 1937.

Strip Cropping

Neel, L.R. Hillside farming without erosion. So. Agr. 67(7):6, illus. July 1937.

Through strip cropping the farm of L.A. Zimmerman of Madison County, N.C., was "changed from a destructive to a constructive type of farming which improves the soil each year."

Terracing

Charles, Tudor. The biggest complaint about terraces. Kans. Farmer 74(38):3, 23, illus. June 5, 1937.

Unsatisfactory outlets is cause of many complaints. Suggestions are given for handling run-off from terraced fields without damage.

"A new machine that may play a great part in the battle against soil erosion is described in a patent recently granted to Edgar V. Collins, Ames, Iowa." Science n.s. 85(2214):15. June 4, 1937.

This article describes a new machine that is claimed "will throw up in the rough 10 miles of erosion-checking terraces in one hour."

Steele, W.A. Terracing as easy as plowing. Farmers are using their own individual equipment at a big saving. Farm Machinery and Equipment 1842:12-13, illus. June 15, 1937.

Advantages of individual farm equipment compared with "large outfits costing thousands of dollars."

Terracing cost figures are included.

Water Conservation

Forrest, T.C. Organizing for watershed development. Civil Engin. 7(7):490-493, illus. July 1937.

Outlines the objectives of the recently developed watershed district plan in Texas. Soil and water conservation are of major importance.

Head, Phil and Holloway, L.E. We went to Mexico to see the bolsas. U.S. Dept. Int. Off. Indian Aff. Indians at Work 4(20):10-15, illus. June 1, 1937.

"The Spanish term 'Bolsa' means pocket. The water is literally run into a pocket and left there to soak into the ground, after which the ground is plowed and harrowed and well pulverized, and the seed planted. Fine corn, beans, and cotton are raised without any more water being used. If the crop is cultivated and the soil kept loose, the moisture does not evaporate."

Pritchett, J.W. Water resources of Texas. Civil Engin. 7(7):462-466, illus. July 1937.

Outlines the general situation with regard to water supplies and explains the reasons which led the Texas legislature to adopt a policy of coordinated development of the entire watershed as a unit for each of the state's major streams.

Paper delivered on April 21, 1937, before the San Antonio, Texas, meeting of the American Society of Civil Engineers.

Water Conservation, Cont.

Semple, A.T. and Allred, B.W. Range improvement by water spreading. Soil Conservation 2(12):269-270, 288, illus. June 1937.

Article discusses how the owners of a ranch in the basin of the San Francisco Creek in southeastern Colorado have practiced soil and water conservation methods since 1910.

Whitney, D.J. More water from the forests. Calif. Cult. 84(11):384-385, 401. May 22, 1937; 84(13):475. June 19, 1937.

It is stated that the light burning of litter and underbrush in the forest regions would increase the amount of water for irrigation. A table is given which shows that the five largest streams entering the San Joaquin Valley from Fresno south have had a steady consistent drop in stream flow over a number of years.

Wildlife Management

Hosley, N.W. Some interrelations of wildlife management and forest management. Jour. Forestry 35(7):674-678. July 1937.

"Essentially the paper presented at the meeting of the New York section, Society of American Foresters, Albany, N.Y., February 8, 1936."

The author takes the position that, in general, the forest wildlife problem must be approached from the standpoint of maximum land use and that forestry plays an important part in this use.

Wallace, H.A. A product of the soil. As such, wildlife restoration is a problem of land management. Amer. Wildlife 26(2):21, 27-28, illus. March-April 1937.

"Presented at the second North American Wildlife conference, St. Louis, Missouri, March 1-4, 1937."

BOOK AND PAMPHLET NOTES AND ABSTRACTS

Annotated bibliography of economic geology for 1936, v.9, no.1. 226pp.

[Lancaster, Pa.] January 1937. 241.65 An7

Prepared under the auspices of the Society of Economic Geologists.

Arkansas state planning board. Progress report... November 1936. 244pp., illus. Little Rock, 1936. 280.7 Ar432P

The section devoted to soil erosion, pages 44-45, includes the following recommendations: that, (1) the state, through some suitable department or agency, avail itself of the facts and experience obtained by the United States Soil Conservation Service through its demonstration projects in Arkansas. (2) A long-term state-wide soil conservation program be evolved through the cooperation of individual farm operators.

Central northwest regional planning commission. Report and recommendations... on Great Plains area problems. 136 numb.1. [n.p.] 1936. 280.7 C33

Prepared for National Resources Committee by direction of Charles W. Eliot, 2nd, executive officer.

"Recommendations of the South Dakota State Planning Board to the Emergency drouth conference called by the Central northwest regional planning commission, Rapid City, South Dakota, August 21-22, 1936. Revised November 15, 1936."

Bibliography: leaf 133-136.

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Hall, O.J. The problems of Arkansas' idle farm land. 10 pp., mimeogr. [n.p.] 1936. 282 H14

Paper prepared for meeting of Forestry Section of Association of Southern Agricultural Workers at Jackson, Mississippi, February 5, 1936.

"Southern farmers should be educated to realize that idle land is unproductive land which, in turn, increases overhead charges... When it is recalled that idle crop land may be used for soil improving crops, for pasture or for woodlands, the self-imposed burden of farmers carrying unproductive land appears inexcusable."

Interstate committee on the Red River of the North drainage basin. Report... Dec. 1, 1936. 124 numb. 1., mimeogr. [Minneapolis? Minn.] 1936. 292 In83

Chapter headings are: Physical characteristics; Climatology; Economic history, present status and trends; Water problems and water plan.

Leningrad. Pochvennyi institut imeni V.V. Dokuchaeva. Eroziia pochv. 354 pp., illus. Moskva, 1937. 56.7 L54

Bibliographies at end of most of the articles.

Russian text.

Subject is soil erosion.

Lyon, T.L. and Buckman, H.O. The nature and properties of soils; a college text of edaphology. 3d ed., 302 pp., illus. New York, The Macmillan company, 1937. 56 L99N Ed. 3.

General style, arrangement and scope similar to preceding edition. Text largely rewritten in order to keep pace with progress of soil science. New developments introduced into this latest edition.

Subjects which formerly took up whole chapters have now been relegated to footnotes, while other material now occupying major positions, formerly was not mentioned.

Soils grouped on basis of scheme worked out by Glinka and other Russian workers, and adapted to this country by Dr. Marbut. Other inclusions are the newer concepts of ionic alkalinity, trace elements as fertilizers, artificial farm manure, and rapid tests for determining available nutrients in soils.

Montana state planning board. Staff report period ending Dec. 31, 1936. 87 pp., illus., mimeogr. [Helena] 1936. 280.7 M763

National resources committee, Works progress administration cooperating.

In this report are presented the problems which are considered to demand immediate attention with the possible solutions. Among them are problems connected with irrigation, water rights, range depletion, forest protection and wildlife.

There is also presented a digest of the information which has been collected covering the resources of the state.

New England regional planning commission. Connecticut river valley water resources bibliography. New England Reg. Planning Comm. Pub. 40, 134 pp. Boston Mass., August 1936. 280.7 N44P no. 40.

The following subjects are included: Geology; Precipitation; Surface Waters;

New England regional planning commission, Cont.

Evaporation; Ground water; Water supply; Flood control.

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280.7 N486 1935-36.

Water resources,pp.28-41.

Flood control,p.37.

Land use,pp.72-78.

Soil erosion,p.72.

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A preliminary survey of sources of municipal water supplies and the problems of protecting municipal watersheds in Oregon. The report discusses the principal features and difficulties of these problems and suggests methods for their solution.

Maps showing Oregon's municipal water sources and watersheds are included.

Rogers,J.K. Geology of Highland county. Ohio Geol.Survey,4th Ser.Bull. 38. 148pp.,illus. Columbus,1936. 406 Oh33B ser.4,no.38.

Orwin,C.S. What is good farming? A paper...read at the Agricultural conference of the Incorporated society of auctioneers and landed property agents at King's Lynn,2nd September 1936. 1pp. [King's Lynn? 1936] Reprint Collection,BAE.

"Reprinted,by permission,from the 'Incorporated auctioneers journal' v.X, no.116."

The author concludes that "good farming is not necessarily high farming,nor mixed farming,nor farming to a prescribed rotation,nor preserving grassland. It is any farming which maintains the cleanliness and the fertility of the land while enabling the farmer to pay his labour,to pay his rent and get the best possible living for himself."

Palestine. Department of agriculture and forests. Annual report...for the year ending March 1935. 200pp. Jerusalem,1936. 22.5 P17 1934-35.

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Sand-drift,p.109.

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Soil erosion control, pp. 498-499.

Drift sands, pp. 499-500.

Pasture research and veld management, pp. 500-501.

Protection of catchment areas, p. 501.

South Dakota state planning board. Recommendations... to the Emergency drought conference called by the Central northwest regional planning commission, Rapid City, South Dakota, August 21-22, 1936. Revised November 15, 1936. 14 l., mimeogr. [Brookings, 1936] 280.7 So82Re.

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Summary: "Notes of three lectures by P. Topham give a general account of forest conditions and policy in Nyasaland, and those of a lecture by R.G.R. Townsend describe the development of a communal forest scheme for the establishment of village forest areas. An appendix contains a memorandum, by the Native Welfare Committee, on Land Control and Development indicating the need for cooperative measures by all Government Departments concerned for soil conservation and the improvement of agricultural methods."

Topham, P. Notes on soil erosion in the United States. Oxford Univ. Imperial Forestry Inst. Inst. Paper no. 8. 29pp., illus., mimeogr. Oxford, 1937. 99.9 Ox23 no. 8

A report on a tour made in January and February, 1937, with the aid of a grant from the Carnegie Corporation, of New York.

The following districts were visited: - The Piedmont district of North and South Carolina, parts of the state of Mississippi, eastern Texas and the Tennessee valley.

Van Dersal, W.R. The dependence of soils on animal life. [8 pp.] New York, National Association of Audubon Societies [1937] Reprint Coll.

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Presented before the Second North American Wildlife Conference, March 1-4, 1937 at St. Louis, Missouri.

"It is quite safe to say that no solution of the problem of erosion control can be adequate which does not take into account the fundamental relations between the soil and its fauna."

Vietinghoff von Riesch, Arnold, freiherr von. Naturschutz, eine nationalpolitische kulturaufgabe. 148pp., illus. Neudamm, J. Neumann, 1936. 279 V67

"Something new under the sun is worth notice, even when it grows in foreign parts. When that something grows in a forest, and its like is not to be found in our own woods, it may be doubly worth the notice of American foresters.

"Such a thing... is Baron Vietinghoff's 'Conservation and Culture' (free translation). In this booklet he attempts to analyze and synthesize the clashing ideas which beset the modern worlds in the fields of economics, philosophy, nationalism and land-use...

"Vietinghoff's basic thesis is an economic and aesthetic symbiosis between men and land. In this, he thinks, lies the only escape from the contradictions

Vietinghoff von Riesch, Arnold, freiherr von, Cont.

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FINIS

